Zircadyne® Zirconium
The results are conclusive!

HNO₃
NO COMPARISON

Compare Zircadyne® 702's corrosion resistance with other materials currently used in nitric acid and the result is conclusive: There is no comparison!!!

COMPARISON OF ZIRCADYNE 702 WITH VARIOUS METALS
IN 60-65% NITRIC ACID

Zircadyne® 702 is an outstanding metal for use in nitric acid environments below 70% concentrations and temperatures up to 450 degrees F. In concentrations above 50% and temperatures above boiling, tantalum is the only metal that rivals zirconium in corrosion resistance. Zircadyne® 702 offers virtually the same benefits as tantalum, at a fraction of the cost. Research also indicates that zirconium alloys resist corrosion in nitric acid even with the addition of some impurities. Tests conducted in Teledyne Wah Chang Albany's Corrosion Laboratory showed that even 1% ferric chloride added to 85% HNO₃ at boiling did not significantly increase Zircadyne® 702's less than 1 mpy corrosion rate.

Reasons to consider Zircadyne®

1) Cost Effective.
- Reduced maintenance and downtime, combined with longer equipment life, make zirconium alloys more cost effective than competitive materials.

2) Low Corrosion Rate.
- No need for corrosion allowance
- No product contamination
- Reduced fouling
- Lower operational costs
- Longer equipment life
- Reduced downtime

3) Higher Allowable Service Temperatures.
- Increased reaction rates
- Higher throughput
- Increased yields

4) Readily Available From Domestic Source.

5) Available in all Mill Forms.

For more information about Zircadyne® 702 and its many applications, call Teledyne Wah Chang Albany... producer of Zircadyne® columbium, hafnium, titanium, tantalum and vanadium.

In a nitric acid application, nothing compares with Zircadyne® 702.